

1 What is claimed is:

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3 1. A water supply assembly of a washing machine, comprising:
4 a detergent box assembly in a cabinet to communicate with a tub;
5 a water supply valve assembly provided higher than the detergent box assembly to
6 control a passage of water flowing inside; and
7 a hose provided slant to connect the detergent box assembly to the water supply valve
8 assembly.

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10 2. The water supply assembly as claimed in claim 1, wherein the detergent box
11 assembly is provided under a top plate of the washing machine and the water supply valve
12 assembly is provided over the top plate.

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14 3. The water supply assembly as claimed in claim 3, wherein the water supply
15 valve assembly is provided in a control panel on the top plate.

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17 4. The water supply assembly as claimed in claim 2, wherein the water supply
18 valve assembly comprises:

19 a holder on an upper surface of the top plate; and
20 a valve fixed to the holder to be connected to the hose.

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22 5. The water supply assembly as claimed in claim 4, wherein the valve is
23 arranged slant to have one side connected to the hose lower than the other side.

25 6. The water supply assembly as claimed in claim 4, wherein the holder
26 comprises:

27 a board having one face to which the valve is fixed; and
28 first and second flanges extending from a lower side of the board in both side
29 directions, respectively to the mounted on the upper surface of the top plate.
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31 7. The water supply assembly as claimed in claim 6, wherein the board includes
32 a slant face so that one side of the valve connected to the hose is mounted lower than the other
33 side of the valve.
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35 8. The water supply assembly as claimed in claim 6, wherein the first flange is
36 fitted to the top plate and the second flange is screwed or bolted to the top plate.
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38 9. The water supply assembly as claimed in claim 8, wherein the top plate
39 includes a bracket protruding upward for slip fit engagement of the first flange.
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41 10. The water supply assembly as claimed in claim 9, wherein the bracket is
42 provided to enclose corners of the first flange.
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44 11. The water supply assembly as claimed in claim 8, wherein the top plate
45 comprises:

46 a cut-away portion cut angled; and
47 a bracket having a portion neighboring to the cut-away portion protrude upward for
48 slip fit engagement of the first flange.

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50 12. A washing machine comprising:
51 a cabinet having an upper side covered with a top plate;
52 a tub in the cabinet;
53 a drum rotatably provided in the tub;
54 a detergent box assembly in the cabinet to communicate with the tub;
55 a water supply valve assembly provided higher than the detergent box assembly, the
56 water supply valve connected to the detergent box assembly via hose provided slant, the water
57 supply valve assembly controlling a passage of water flowing inside;
58 a drain assembly in the cabinet to communicate with the tub and to discharge the
59 water in the tub outside; and
60 a control panel.

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62 13. The washing machine as claimed in claim 12, wherein the detergent box
63 assembly is provided under a top plate of the washing machine and the water supply valve
64 assembly is provided over the top plate.

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66 14. The washing machine as claimed in claim 12, wherein the control panel is
67 provided on the top plate.

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69 15. The washing machine as claimed in claim 14, wherein the water supply valve
70 assembly is provided in the control panel.

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72 16. The washing machine as claimed in claim 13, wherein the water supply valve

assembly comprises:

a holder on an upper surface of the top plate; and

a valve fixed to the holder to be connected to the hose.

17. The washing machine as claimed in claim 16, wherein the valve is arranged slant to have one side connected to the hose lower than the other side.

18. The washing machine as claimed in claim 16, wherein the holder comprises:
a board having one face to which the valve is fixed; and
first and second flanges extending from a lower side of the board in both side directions, respectively to the mounted on the upper surface of the top plate.

19. The washing machine as claimed in claim 18, wherein the board includes a slant face so that one side of the valve connected to the hose is mounted lower than the other side of the valve.

20. The washing machine as claimed in claim 18, wherein the first flange is fitted to the top plate and the second flange is screwed or bolted to the top plate.

21. The washing machine as claimed in claim 20, wherein the top plate includes a bracket protruding upward for slip fit engagement of the first flange.

22. The washing machine as claimed in claim 21, wherein the bracket is provided to enclose corners of the first flange.

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98 23. The washing machine as claimed in claim 19, wherein the top plate

99 comprises:

100 a cut-away portion cut angled; and

101 a bracket having a portion neighboring to the cut-away portion protrude upward for

102 slip fit engagement of the first flange.